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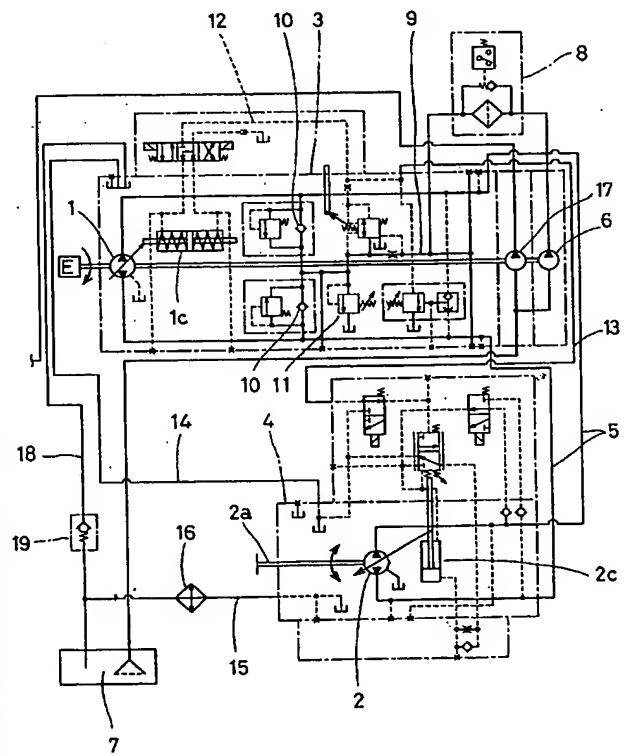
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- (71) 出願人(米国を除く全ての指定国について): 新キャタピラー三菱株式会社 (SHIN CATERPILLAR MITSUBISHI LTD.) [JP/JP]; 〒1588530 東京都世田谷区用賀四丁目10番1号 Tokyo (JP).
- (72) 発明者: および
(75) 発明者/出願人(米国についてのみ): 梅村 哲郎
- (53) (UMEMURA, Tetsuo) [JP/JP]; 〒1588530 東京都世田谷区用賀四丁目10番1号 新キャタピラー三菱株式会社内 Tokyo (JP). 小西 勉 (KONISHI, Isao) [JP/JP]; 〒1588530 東京都世田谷区用賀四丁目10番1号 新キャタピラー三菱株式会社内 Tokyo (JP). 島崎 秀夫 (SHIMAZAKI, Hideo) [JP/JP]; 〒1588530 東京都世田谷区用賀四丁目10番1号 新キャタピラー三菱株式会社内 Tokyo (JP).
- (74) 代理人: 広瀬 哲夫 (HIROSE, Tetsuo); 〒1010065 東京都千代田区西神田2-5-6 中西ビル5階 Tokyo (JP).
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(54) Title: HST DRIVE CIRCUIT

(54) 発明の名称: H S T 駆動回路



(57) Abstract: An HST drive circuit containing an HST pump and an HST motor individually in a pump case and a motor case, wherein the HST drive circuit can be cooled efficiently. A cooling line is formed to discharge relief oil from a charging circuit (9) for replenishing an HST closed circuit (5) with pressure oil into the pump case (3) and to feed the discharged oil to an oil tank (7) through the pump case (3), communicating piping (14), the motor case (4), and an oil cooler (16), and working oil circulating through the HST pump (1), the HST motor (2), and the HST closed circuit (5) is cooled by the oil flowing through the cooling line.

(57) 要約: H S T ポンプ、H S T モータをポンプケース、モータケースに各別に収納した H S T 駆動回路において、該 H S T 駆動回路を効率よく冷却できるようにする。H S T 閉回路5に圧油を補充するチャージ回路9からのリリーフ油を、ポンプケース3内に放出せしめる一方、該放出された油をポンプケース3、連通配管14、モータケース4、オイルクーラー16を経由して油タンク7に流す冷却ラインを形成し、該冷却ラインを流れる油により H S T ポンプ1、H S T モータ2、および H S T 閉回路5を循環する作動油を冷却するように構成した。

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のガイド」を参照。

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' F16H61/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' F16H61/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Jitsuyo Shinan Koho 1922-1996 Tōroku Jitsuyo Shinan Koho 1994-2004
 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Tōroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-30304 A (Uchida Oil Hydraulics Mfg. Co., Ltd.), 02 February, 1999 (02.02.99), Full text; all drawings (Family: none)	1
A	JP 2001-146951 A (Kanzaki Kokyukoki Mfg. Co., Ltd.), 29 May, 2001 (29.05.01), Full text; all drawings & US 6425244 B1 Full text; all drawings & DE 10047166 A	1

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- "&" document member of the same patent family

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Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-227998 A (Hitachi Construction Machinery Co., Ltd.), 14 August, 2002 (14.08.02), Full text; all drawings (Family: none)	1
A	JP 2003-14112 A (Yanmar Co., Ltd.), 15 January, 2003 (15.01.03), Full text; all drawings (Family: none)	1